



# Decoupler DASD

Robust and powerful

# DASD 45 LP 100 T

DEHN Advanced Solid-State Decoupler

## Protect employees, limit overvoltages, avoid AC corrosion

The powerful decoupling unit DASD provides permanent protection in case of overvoltages (lightning strikes, temporary, long-duration). Dangerous AC voltages are limited to a level that is safe for people and systems.

## Master external voltages

Lightning strikes, high-voltage lines and electric railways generate external voltages that lead to impermissible overvoltages and AC corrosion on the pipeline. DASD offers reliable protection here. Even long-duration AC voltages are limited to safe values without negatively affecting the cathodic protection potential (DC potential) across the pipeline.

## Safety for employees

DASD protects people working on pipelines against dangerous touch voltages.

## Available anywhere

DASD does not require an external power supply. The decoupler can therefore be used anywhere – even in places where, depending on the situation, there is a particularly high risk of external voltages, potential changes or stray currents.

## Impressive in tough conditions

DASD can be installed in harsh environments thanks to its robust housing – IP68 degree of protection (dust- and waterproof). Its high discharge capacity of 3.7 kA (temporary) provides a reassuring safety reserve.

## Easy testing

Particularly practical during maintenance: Functionality is easy to check via the integrated test socket.



## Technical data

Part No	923 402
Type	DASD 45 LP 100 T
Discharge current (transient) (10/350 $\mu$ s)	75 kA
Discharge current (transient) (8/20 $\mu$ s)	100 kA
Discharge current (temporary) (50 Hz, 60 Hz)	5.0 kA <sub>rms</sub> (up to 40 ms)
Discharge current (temporary) (50 Hz, 60 Hz)	3.7 kA <sub>rms</sub> (up to 200 ms)
Discharge current (temporary) (50 Hz, 60 Hz)	2.0 kA <sub>rms</sub> (up to 600 ms)
Discharge current (long-duration) (50 Hz, 60 Hz)	45 A <sub>rms</sub>
Max. permissible DC voltage	-2 V / +1 V
Max. leakage current (20 °C)	< 20 $\mu$ A
Operating temperature range (TU)	-45 °C ... +65 °C
Degree of protection	IP68
Dimensions	110 mm x 420 mm

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## Highlights

- **Permanent safety**  
for pipelines and people
- **Less effort**  
involved in installation and maintenance
- **Easy functional test**  
via test socket
- **Reliable protection**  
in case of transient, temporary and long duration overvoltage
- **IP68 housing**  
water and dust-proof
- **High discharge capacity**  
75 kA (10/350  $\mu$ s)  
100 kA (8/20  $\mu$ s)  
3.7 kA (50 Hz / 200 ms)

**More information at:**



[de.hn/decoupler-en](https://de.hn/decoupler-en)

**DEHN protects.**  
Surge Protection  
Lightning Protection  
Safety Equipment

**Contact**  
Phone: +49 9181 906-1750  
Mail: [technik.support@dehn.de](mailto:technik.support@dehn.de)  
DEHN SE + Co KG | [www.dehn-international.com](http://www.dehn-international.com)